

# MATTHEW BANDOS

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*Multilingual Computer Science Undergraduate with a passion for robotics and automation.  
Enthusiastic about developing real-world solutions while expanding knowledge in practical team-oriented settings.*

## Education

University of Maryland – College Park May 2028 (Expected)

Bachelor of Science, Computer Science – Machine Learning; Dual Degree in Mathematics – Statistics

*Honors College: 4.0GPA, 73 Credits, UMD President's Scholarship (2024 – 2028), National Merit Scholarship Winner (2024)*

## Skills

Programming Languages: Python, C++, C, Java, R

Web development: HTML, CSS, JavaScript

Development Tools: Github, Visual Studio, Unity, Eclipse, Spyder

Packages and Frameworks: Playwright, Selenium, BeautifulSoup, NumPy, Pandas, GeoPandas, Matplotlib

## Research

### IHC GeoHealth

August 2024 – Present

Student Researcher | College Park, MD

- Designed 23 Automated Data Scrapers in Python for Geolocation Database, Collecting over 5 Million Unique Data Points
- Created 15 Data Pipelines in Python for Processing Geolocation Data used to Identify Socially Disadvantaged Areas.
- Co-authored Research Paper Published by medRxiv– GPS-Health: A Novel Analytic Infrastructure for Capturing, Visualizing, and Analyzing Multi-Level, Multi-Domain Geographically Distributed Social Determinants of Health

## Work Experience

### University Career Center at University of Maryland

September 2024 – Present

Information Systems Assistant | College Park, MD

- Resolved 91 Technical Issues, Serving 31 Employees Who Oversee Career Services for College Park Campus
- Oversaw Deployment of 16 Check-in Stations for Fall and Spring Career Fair (1500-1800 Students per day)

### Simcoach Games

June 2024 – July 2024

Summer Apprenticeship, Team Lead | Pittsburgh, PA

- Lead 3 Other Interns in Drafting and Developing a Preliminary Scheduling Skills Game Using Unity and C#
- Presented Project at Simcoach Offices to 10+ Professional Game Developers

### Gabriel Petesch Chess Camps

June 2023 – Augst 2023

Teaching Assistant | Pittsburgh, PA

- Taught Chess Concepts to 60+ Students in Grades K to 8 and Supervised Tournaments Across 2 Summer Camps.

## CS Clubs

### Robotics Team (Quasics) – Gateway High School

May 2021 – June 2024

Team Captain, Lead Programmer, and TA | Monroeville, PA

- Programmed Robot Operating Software - Each Robot Averaged 90lbs and Performed a Variety of Manual Labor Tasks
- Wrote 5000+ Lines of Code Per Year for Robot Architecture, Autonomous Capabilities Led to Team Winning 2023 Regional
- Presented Twice at Google Offices on Robotics. Taught C++ and Java to 4 Younger Programmers

## CS Volunteering

### Stem Coding Lab

June 2023 – August 2023

Volunteer Teaching Assistant | Pittsburgh, PA

- Taught Basic Programming and Digital Literacy Skills to 60+ Elementary Students in Economically Disadvantaged Areas

## Projects

Google Forms to Canvas: Converts Google Forms to its Canvas Equivalent (*Python: Selenium*)

(*Mini Project*) FROC to ROC Converter: Adjustable Data Visualization for Curves (*Python: Matplotlib, Pandas*)

(*And just for fun*) Physics Homework Solver: Systematic, Brute Force Solver for Online Homework Problems. (*Python: Selenium*)

## Extra Curriculars

Ukrainian Duolingo (950+days), Tennis, Robotics, Chess, Piano, Ski, Community Service (100+hrs)